

METHOD AND SYSTEM FOR OPTIMIZING UTOPIA CLAV POLLING  
ARBITRATION

ABSTRACT

5       The present invention is directed to methods and systems for optimizing UTOPIA CLAV polling arbitration. According to an aspect of the present invention, UTOPIA L2 CLAV status polling of each PHY address may be optimized by polling PHY addresses that have not yet indicated an active CLAV status or have just finished a cell transfer so that a CLAV response is required again. According to another aspect of the present  
10      invention, UTOPIA L2 CLAV status polling may be arbitrated so faster connection PHY addresses are polled proportionally more often than slower connection PHY addresses. According to yet another aspect of the present invention, if a connection speed no longer has any PHY addresses which require polling, the arbitration may be altered so only the connection speed with PHY addresses which require polling are actually polled. This  
15      ensures that the polling bandwidth is used as efficiently as possible.